

KULIKOV, A.I.; KURLINA, I.P.; POLYAKOV, I.M.; MOVCHAN, N.A.

Products of the acetylation of shale phenols as fungicides.  
Khim. i tekhn. gor. slan. i prod. ikh perer. no.9:283-288 '60.  
(Phenols) (Fungicides) (MIRA 15:6)

POLYAKOV, I.M.

Grain, the main problem of the All-Union Research Institut of  
Plant Protection. Zashch. rast. ot vred. i bol. 5 no.1:39-41  
'60. (MIRA 14:6)

1. Direktor Vsesoyuznogo instituta zashchity rasteniy, chlen-  
korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh  
nauk im. V.I.Lenina.  
(Grain--Diseases and pests)

POLYAKOV, I.M.

Chemical control fo the loose smut of wheat and barley. Zashch.  
rast.ot vred.1 bol. 5 no.3:15-18 Mr '60. (MIRA 16:1)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyayst-  
vennykh nauk imeni V.I.Lenina.

(Wheat—Diseases and pests)  
(Barley—Diseases and pests) (Smuts)

POLYAKOV, I. M.; LYUBOSHITS, I. L.; KLAPTSOVA, N. K.

New method for drying grain in controlling loose smuts. Zashch.  
rast. ot vred. i bol. 5 no.6:16-18 Je '60.

(MIRA 16:1)

(Seeds--Disinfection) (Smuts)

POLYAKOV, I.M.; ANDREYEV, S.V.; KHOTYANOVICH, A.V.

Polymeric and macromolecular compounds in the protection of plants.  
Zashch. rast. ot vred. i bol. 5 no.9:14-17 S '60. (MIRA 15:6)  
(Plants, Protection of) (Agricultural chemicals)  
(Polymers)

POLYAKOV, I. M.

Tasks of science. Zashch. rast. ot vred. i bol. 5 no.11:4-7  
N '60. (MIRA 16:1)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystven-  
nykh nauk im. V. I. Lenina.

(Plants, Protection of--Research)

POLYAKOV, I.M.

Possible use of carbothion. Zashch. rast. ot vred. i bol. 6  
no.11:30-32 N '61. (MIRA 16:4)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyayst-  
vennykh nauk im. V.I. Lenina.  
(Carbamic acid) (Vegetables—Diseases and pests)  
(Greenhouse management)

KULIKOV, A.I.; POLYAKOV, I.M.; KHOLODNYUK, M.S.; BOCHKAREVA, Z.A.

Disinfecting seeds with the addition of a sulfite liquor  
concentrate sticker. Zashch. rast. ot vred. 1 bol. 7 no.12:  
26-27 D '62. (MIRA 16:7)

(Seeds—Disinfection) (Sulfite liquor)



POLYAKOV, I.M.; KULIKOV, A.I.; SANKOV, Ye.A.; SIYANITSKIY, F.M.; VOLOKHOVA,  
Ye.S.

Experience in the use of fumigation for the disinfection of waste  
cottons. Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.1:167-168 '62.  
(MIRA 15:3)

1. Leningradskiy tekstil'nyy institut im. S.M.Kirova.  
(Cotton waste--Disinfection)

KUSHNER, Kh.F., otv. red.; GLUSHCHENKO, I.Ye., red.; YENIKEYEV, Kh.K., red.; KOSIKOV, K.V., red.; NUZHDIN, N.I., red.; PASHINSKAYA, T.N., red.; POLYAKOV, I.M., red.; PREZENT, I.I., red.; SUKHOV, K.S., red.; FEYGISON, N.I., red. izd-va; UL'YANOVA, O.G., tekhn. red.

[Genetics in agriculture] Genetika - sel'skomu khoziaistvu. Moskva, Izd-vo AN SSSR, 1963. 794 p. (MIRA 16:9)

1. Akademiya nauk SSSR. Institut genetiki.  
(Plant breeding) (Stock and stockbreeding)

POLYAKOV, I. M.,

"Multiple Effect of Fertilization in Floral Plants."

report submitted for the 11th Intl. Congress of Genetics, The Hague, Netherlands,  
2-10 Sep 63

KURSANOV, A.L., akademik, otv. red.; OVCHAROV, K.Ye., doktor biol. nauk, red.; GENKEL', P.A., prof., red.; POLYAKOV, I.M., prof., red.; PROKOF'YEV, A.A., prof., red.; STROMA, I.G., kand. sel'khoz. nauk, red.; SEDENKO, D.M., red.; GENKEL', K.P., red.; KHOR'KOV, Ye.I., red.

[Biological bases of increasing the quality of farm crop seeds; materials of a scientific session held November 26-30, 1963 in Moscow] Biologicheskie osnovy povysheniia kachestva semian sel'skokhoziaistvennykh rastenii; materialy nauchnoi sessii, sostoiavsheisia 26-30 noiabria 1963 g. v Moskve. Moskva, Nauka, 1964. 278 p. (MIRA 18:3)

1. Akademiya nauk SSSR. Institut fiziologii rasteniy.

POLYAKOV, I.M.; VLADIMIRSKAYA, M.Ye.

Role of light conditions in the resistance of cabbage to  
downy mildew. Trudy VIZR no.21:18-24 pt.2 '64.

(MIRA 18:12)

POLYAKOV, I.M.; NILOVA, V.P.

Effect of the preparation thiocyanogen on the phosphorus  
metabolism in wheat. Trudy VIZR no.21:62-70 '64.

(MIRA 18:12)

POLYAKOV, I.M.

Development of the chemical method of controlling the diseases  
of crop plants in the U.S.S.R. Trudy VIZR no.23:123-130 '64.  
(MIRA 19:2)

POLYAKOV, Il'ya Mikhaylovich; CHERKASOVA, V.I., red.; GOROKHOVA, S.S.,  
tekhn.red.

[J.B.Lamarck and the theory of the evolution of the organic  
world] Zh.B.Lamark i uchenie ob evoliutsii organicheskogo  
mira. Moskva, Gos.izd-vo "Vysshaya shkola," 1962. 265 p.

(MIRA 15:5)

(Lamarck, Jean Baptiste de, 1774-1829)  
(Evolution)



POLYAKOV, I.M.; VLADIMIRSKAYA, M.Ye.; IL'INA, M.N.; MILOVIDOVA, T.G.

Effectiveness of soil fumigation in the control of the clubroot of  
mustard family plants. Trudy VIZR no.20 pt.1:3-6 '64. (MIRA 18:10)

POLYAKOV, T.M.

Effect of new organic fungicides on plants and pathogenic  
fungi. Trudy VIZR no.17:89-99 '63. (MIRA 18:9)

KULIKOV, A.I.; KURLINA, I.P.; POLYAKOV, I.M.; SHIPINOV, N.A.

Nitrafen. Zashch. rast. ot vred. i bol. 9 no.2:38 '64.  
(MIRA 17:6)

1. Vsesoyuznyy institut zashchity rasteniy.

POLYAKOV, I.M.

We are improving the coordination of research. Zashch. rast. ot  
vred. i bol. 9 no.1:58-59 '64. (MIRA 17:4)

POLYAKOV, I.M.; VLADIMIRSKAYA, M.Ye.; POPOV, V.I.

Soil fumigant mylone. Zashch. rast. ot vred. i bol. 8 no.2:29-30  
F '63. (MIRA 16:7)

1. Vsesoyuznyy institut zashchity rasteniy.  
(Fumigation) (Thiadiazinethione)

POLYAKOV, I.N., podpolkovnik meditsinskoy sluzhby

Special training of medical personnel and instructors for  
night work. Voen.med.zhur. no.5:12-14 My '59. (MIRA 12:8)  
(MEDICINE, MILITARY AND NAVAL, educ.  
train. med. personnel & instructors for  
night work (R<sub>118</sub>))

POLYAKOV, I.N.

Results of conservative surgery in cancer of the penis. Sov.med.  
18 no.3:32-33 Mr '54. (MLRA 7:2)

1. Iz fakul'tetskoy khirurgicheskoy kliniki Irkutskogo meditsin-  
skogo instituta. (Penis--Cancer) (Therapeutics, Surgical)

L 9828-66 EMT(h)/ENA(h)

ACC NR: AP6003970

SOURCE CODE: UR/0104/65/000/005/0093/0093

AUTHOR: Sarkisov, M. A.; Rokotyan, S. S.; Uspenskiy, B. S.; Sharov, A. N.;  
Zhulin, I. V.; Fedoseyev, A. M.; Korolev, M. A.; Khevfits, M. E.; Yermolenko, V. M.;  
Petrov, S. Ya.; Azar'yev, D. I.; Krikunchik, A. B.; Polyakov, I. P.; Sazonov, V. I.;  
Khvoshchinskaya, Z. G.; Kartsev, V. L.; Smelyanskaya, B. Ya.; Kozhin, A. N.;  
Losev, S. B.; Dorodnova, T. N.; Rubinchik, V. A.; Smirnov, E. P.; Rudman, A. A.

ORG: none

TITLE: Abram Borisovich Chernin

SOURCE: Elektricheskije stantsii, no. 5, 1965, 93

TOPIC TAGS: electric engineering, electric engineering personnel

ABSTRACT: An engineer since 1929, A. B. Chernin has worked for years in developing new techniques and equipment for relay protection of electric power systems. In this 60th birthday tribute, he is credited with leading the group which produced the directives on relay protection, contributing to the development of a method for calculating transient processes in long distance 400-500 kv power transmission lines and with aiding in planning of the electric portions of power stations, substations and power systems. The results of his engineering and scientific work have been published 46 times, he is a doctor of technical sciences (since 1963), and has taught for 30 years at the Moscow Power Institute. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

HW  
Card 1/1

50  
B



POLYAKOV, I.P., general-mayor aviatsii; SHEVTSOV, M.L., inzhener-podpolkovnik

This is the result of initiative. Vest. Vozd. Fl. no. 2:57-58  
F '61. (MIRA 14:7)

(Airplanes—Maintenance and repair)

POLYAKOV, I.P., general-mayor aviatsii

Developing willpower in flight cadets. Vest.Voed.Fl.  
no.7:26-31 J1 '60. (MIRA 13:7)  
(Flight training) (Courage)

| POLYAKOV, I. S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 22 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--|
| <p>Oil-refining processes in the Second Baku. I. S. Polyakov, <i>Vostochnaya Neft</i> 1939, No. 1, 25-8. —The chief oil-refining processes planned for the Second Baku are: desalting by washing with water and possibly with the use of demulsifiers, straight and vacuum distn., selective cracking, reforming, gas fractionation, catn. of <math>H_2S</math> from the cracked gases, polymerization, centrifugal <math>H_2SO_4</math> treatment of pressure distillates, hydrogenation of diisobutylenes, manuf. of <math>H</math> and utilization of <math>H_2S</math> and acid sludge in the manuf. of <math>H_2SO_4</math>. B. Z. Kamich</p> |  |    |  |
| <p>ASB-314 METALLURGICAL LITERATURE CLASSIFICATION</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |  |
| <p>13041 804104</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |    |  |

| POLYAKOV, I. S.                                                                                                                                                                                                              |  | PROCESSES AND PROPERTIES INDEX |  | 22 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|--|----|--|
| Refineries for crude oil produced in the "Second Baku." I. S. Polyakov. <i>Nefteyanaya Prom. S. S. S. R.</i> 1940, No. 2, 29-30; cf. C. A. 34, 8230 <sup>1</sup> .—The Ukr. Syzran and Bacriltamak refineries are described. |  | A. A. Bochtlingk               |  |    |  |
| <p>ASB-31A METALLURGICAL LITERATURE CLASSIFICATION</p> <p>RECHN. STIMULIUM</p> <p>RECHN. BOWING</p> <p>RECHN. ONE ONLY 151</p> <p>RECHN. ONE ONLY 151</p>                                                                    |  |                                |  |    |  |

| POLYAKOV, I.S.                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| CA                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Electric dehydrator for petroleum and its products.<br>L.S. Polyakov, M. V. Rysakov, N. P. Sosnovskii, S. O.<br>Blekhtman, V. G. Puchkov, and L. P. Loshkin. U.S.S.R. V<br>68,794, June 30, 1917. M. Hosh |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

POLYAKOV, I.S.; LEBEDEV, M.G.; AKARO, I.I.

Standard technological processes in the production of forged  
pieces for the journal of an automobile rotating cam. Kuz.-shtam.  
proizv. 7 no.2:5-11 F '65.

(MIRA 18:4)

REBEL'SKIY, A.V. [deceased]; PROTOPOPOV, O.V.; KUZNETSOV, A.V.;  
POLYAKOV, I.S.; RYBAKOV, Yu.I.

Drop forging in split dies. Kuz.-shtam.proizv. 4 no.12:3-8 D '62.

(Forging)

(Dies (Metalworking))

(MIRA 16:1)

S/182/62/000/012/001/005  
DO40/D112

AUTHORS: Rebel'skiy, A.V. (Deceased), Protopopov, O.V., Kuznetsov, A.V.,  
Polyakov, I.S., and Rybakov, Yu.I.

TITLE: Press forging in sectional dies

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no.12, 1962, 3-8

TEXT: ENIKMASH and the Moskovskiy avtomekhanicheskii institut (Moscow Automechanical Institute) jointly studied the sectional-die forging process by forging two types of automotive universal joints. The universal joint was chosen because it is a typical automobile part with long protrusions that can be economically fabricated by the sectional-die forging method. The article gives a detailed description of the two experimental dies sets, observations of metal flow in the die and the transition radii, gaps between the punch and the die container, and the forging outline giving proper filling of the die without burrs. Engineering recommendations are given. Studies have yet to be continued to find the necessary technological data for the forging of parts other than universal joints. The recommendations concern the outline of the forging, the use of one-stage and two-stage forging for different forgings, the types of special presses to be developed. Reference

Card 1/2



Press forging in sectional dies

S/182/62/000/012/001/005  
DO40/D112

is made to non-Soviet special presses for sectional-die forging, such as the U.S. Baldwin press, the German "Siempelkamp", or the British Wilkins & Mitchell. There are 8 figures and 1 table.

Card 2/2

LEYBO, A.N.; POLYAKOV, I.S., redaktor; KIRZHNER, Ts.Ya., tekhnicheskij redaktor.

[Modern designs for petroleum industry equipment] Sovremennye konstruktssii nefteapparatury. Moskva, Biuro tekhniko-ekonomicheskoi informatsii TsIMTnefti, 1947. 70 p. (Tekhniko-informatsionnye sborniki) (MLRA 8:10)  
(Petroleum industry--Equipment and supplies)

SOV/65-58-12-16/16  
**AUTHORS:** Fedorov, V. S; Ryabchikov, V. R; Polyakov, I. S;  
Sorokin, N. I. et al.  
**TITLE:** Smirnov, Petr Aleksandrovich,  
**PERIODICAL:** Khimiya i Tekhnologiya Topliv i Masel, 1958<sup>3</sup> Nr 12,  
pp 68 (USSR)  
**ABSTRACT:** Petr Aleksandrovich Smirnov died on 28th September, 1958.  
He was head of the technical section of Giproneftezavod  
and worked in the petroleum refining industry for the  
last 25 years. He developed a number of important  
technical processes which are widely used in petroleum  
refining plants, and also published many articles on  
this subject. He received numerous decorations for his  
outstanding work.

Card 1/1

USCOMM-DG-60.783

Pol'yakov, I. S.

25(1) PRESS I BOOK REPRODUCTION 30W/3368

Moscow. Avtomaticheskii institut. Kafedra "Mashiny i tekhnologiya obrabotki metallov davleniyem".  
Protsessy shtampovki i ikh tekhnologicheskiye parametry (Pressure-working Processes and Their Technological Characteristics) Moscow, Mashiz, 1959. 196 p. Zirrita slip inserted. 3,650 copies printed.

Sponsoring Agency: Ministerstvo vysshago obrazovaniya SSSR.  
Ed.: I. A. Kostygin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: G. M. Soboleva; Tech. Ed.: E. I. Kindi; Design Ed.: for Literature on Heavy Machine Building (Mashgiz): S. Ya. Golorin, Engineer.

PURPOSE: The book is intended for engineering and scientific personnel of plant laboratories, stamping and forging shops. It can also be used by students.

CONTENTS: The authors of the eight articles in this collection analyze speed and power coefficients, discuss methods of pressing, rates of deformation, and other problems in pressing and forging. The articles are based on research conducted by the Moscow Machines and Technology Institute (Moscow Automation and Mechanization Institute). References appear at the end of each article.

Protopopov, G. K., Engineer. Investigation into the Practice of Upsetting Pipe Stock. 155

The article is divided into three sections: Problem of stress, problem of stability, and experimental results. The article analyzes the process of upsetting of stock in the press and derives formulas for press force.

Orlov, P. K., Candidate of Technical Sciences. Experimental Investigation of the Formation of Flow Lines in Cold Stamped and Drawn Body Sections of Automobiles. 169

The article covers the surface layer of sheets, formation of flow lines as a result of elongation stress, flow lines in deep drawing, and flow lines in cold-worked parts.

Pol'yakov, I. S., Engineer. Aspects of Rapid Heating of Forging. 183

The author discusses and evaluates five methods of heating: rapid heating in a flame furnace, induction heating, arc-furnace heating, heating in an electrolyte, and heating in molten glass. No definite conclusions as to economic advantages of any of these methods are drawn.

AVAILABLE: Library of Congress

POLYAKOV, I.S., inzh.; AKARO, I.L., inzh.

Stamping in closed dies on crank presses. Vest. mashinostr.  
44 no.9:62-66 S '64. (MIRA 17:11)

VORONTSOV, Yu.I., POLYAKOV, I.V.

Study of the operation of high-speed triggers with tunnel diodes using a modeling technique. Radiotekh. i elektron. 9 no.7:1246-1257 J1 '64. (MIRA 17:8)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

GLAZKOV, P.G., inzh.; GRIGOR'YEV, F.N., inzh.; MURZOV, K.V., inzh.;  
SLADKOSHTYEV, V.T., inzh.; Primalni uchastiye: MALAKHA, A.V.;  
POKRASS, L.M.; DRUZHININ, I.I.; OSIPOV, V.G.; KONDRATYUK, A.M.;  
POLYAKOV, I.V.; GORDIYENKO, M.S.; PAVLOV, M.T.; KOPYTIN, A.V.;  
PARASHCHENKO, R.A.; POTANIN, R.V.; AKHTYRSKIY, V.I.; BRUK, S.M.;  
YEVTUSHENKO, V.V.; LEYTES, A.V.; STRELETS, V.M.

Continuous casting of 140-ton steel heats with four-channel  
equipment. Stal' 22 no. 6:501-504 Je '62. (MIRA 16:7)

POLYAKOV, I.V.

Diseases of the nervous system in the general incidence of  
disease among the population. Zdrav. Ros. Feder. 7 no.6:19-  
22 Je '63. (MIRA 17:1)

1. Iz kafedry organizatsii zdravookhraneniya (zav. - prof.  
S.Ya. Freydlin) i Leningradskogo meditsinskogo instituta  
imeni akademika I.P. Pavlova (rektor - dotsent A.I. Ivanov).



ACCESSION NR: AP4043687

S/0109/64/009/008/1516/1517

AUTHOR: Vorontsov, Yu. I.; Polyakov, I. V.

TITLE: Efficient method of widening the range of clock frequencies of a tunnel-diode bridge trigger

SOURCE: Radiotekhnika i elektronika, v. 9, no. 8, 1964, 1516-1517

TOPIC TAGS: trigger, bridge trigger, diode, tunnel diode, tunnel diode bridge trigger

ABSTRACT: The clock-frequency range is often limited by spurious oscillation appearing in the trigger circuit. A circuit stabilization is suggested by connecting a resistor across the tunnel diodes. An experimental verification revealed that the upper clock-frequency limit can be raised by 5 times, which makes the upper frequency practically equal to that of a noninductive trigger. Orig. art. has: 2 figures.

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Card 2/2

ACC NR: AP7002679

SOURCE CODE: UR/0109/67/012/001/0158/0161

AUTHOR: Logunov, L. A.; Polyakov, I. V.; Serebryakov, V. N.

ORG: none

TITLE: Distributed tunnel diodes

SOURCE: Radiotekhnika i elektronika, v. 12, no. 1, 1967, 158-161

TOPIC TAGS: tunnel diode, esaki diode, distributed amplifier

ABSTRACT:

The properties of an active transmission line in which the active element is an epitaxially grown distributed tunnel diode (see Fig. 1) are

Card 1/3

UDC: 621.382.233

ACC NR: AP7002679

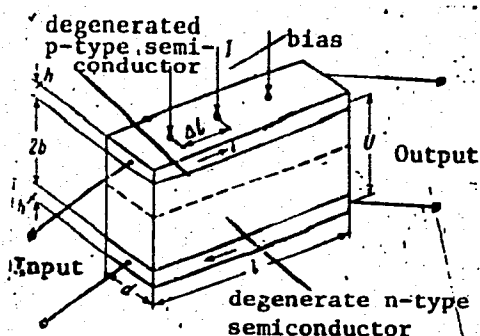


Fig. 1. Distributed semiconductor active transmission line.

pulses and 200—400-usec bias pulses, have shown that a nonattenuated signal may be propagated along this line. The propagation velocity varied ( $0.4 \times 10^8$ — $1.15 \times 10^8$  cm/sec) from sample to sample increasing as the

analyzed. The device is made as follows: from the In + 3% Ca +7% Ge solution a p-type germanium layer was grown on an n-type 400—450- $\mu$  Ge plate doped with As whose resistivity was  $(6-8) \times 10^{-4}$  ohm/cm. The resistivity of the p-type layer was  $\sim 4 \times 10^{-4}$  ohm/cm. The finished samples were 15—20 cm long and 150—250  $\mu$  wide. The metallic layers for input and output contacts and biasing were made by depositing a 1- $\mu$  layer of Ni. Tests, using five samples driven by 35-nsec triangular current

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ACC NR: AP7002679

ratio of bias to peak TD current was increased up to a value of 1. After this the sample behaved as a lumped element where all tunnel diodes in the equivalent circuit switched simultaneously. In other samples which had linearly varying width, in addition to the above properties, current amplification occurred as it flowed in the direction of increasing sample width. The value of current gain was approximately equal to the ratio of sample width at the output to that at the input. Orig. art. has: 7 formulas, 3 figures, and 1 table.

SUB CODE: 09/ SUBM DATE: 25Jun66/ ORIG REF: 004/ OTH REF: 002/  
ATD PRESS: 5112

Card 3/3

VORONTSOV, Yu.I.; POLYAKOV, I.V.

Effective method for broadening the band of cycle frequencies of a bridge-type trigger circuit using tunnel diodes. Radiotekh. i elektron. 9 no.8:1516-1519 Ag '64. (MIRA 17:10)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta.

POLYAKOV, I.V.

From the history of medical service in Petersburg for patients  
with nervous and mental diseases. Zhur. nevr. i psikh. 64  
no.8:1240 '64. (MIRA 17:12)

1. Kafedra organizatsii zdravookhraneniya i leningradskogo  
meditsinskogo instituta im. I.P. Pavlova.

ACCESSION NR: AP4042521

S/0109/64/009/007/1246/1257

AUTHOR: Vorontsov, Yu. I.; Polyakov, I. V.

TITLE: Investigating high-speed tunnel-diode triggers by a simulation method

SOURCE: Radiotekhnika i elektronika, v. 9, no. 7, 1964, 1246-1257

TOPIC TAGS: trigger, tunnel diode, tunnel diode trigger, high speed trigger

ABSTRACT: The study of high-speed tunnel-diode triggers is technically difficult; hence, a study of simulated characteristics on a low-frequency model was attempted. The conditions of similitude of bridge triggers with an allowance for spurious parameters were determined; the combined parameter  $Cu_m^2 / LI_m^2$  was varied within  $2.5 \times 10^{-4} - 2.5$ ; no parameter spread was taken into account. The starting current was varied from 5 to 20%  $I_m$ , and the quantity  $rI_m$ , from 12 to 90 mv. It was found that: (1) In the cases when  $Cu_m^2 / LI_m^2 \gg 1$ , the effect of inductance in the arms of the bridge trigger is negligible and the trigger max

Card

1/2

ACCESSION NR: AP4042521

operating frequency is determined by the time constant of the tunnel diode; when, however,  $Cu_m^2/LP_m \ll 1$ , the inductance plays a decisive role, and the max clock frequency is practically independent of the tunnel-diode capacitance;

(2) Increasing the load resistance from its critical to twice the critical value widens the frequency band by 1.5 times; the frequency band doubles for the infinite-resistance load. Orig. art. has: 7 figures and 6 formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 08May63

ENCL: 00.

SUB CODE: EC, DP

NO REF SOV: 001

OTHER: 005

Card 2/2



VORONTSOV, Yu.I.; POLYAKOV, I.V.

Simple method for measuring the parameters of tunnel diodes.

Prib. i tekhn. eksp. 8 no.6:159-161 N-D '63.

(MIRA 17:6)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta.

L 52268-65

ACCESSION NR: AP5013342

UR/0109/65/010/005/0890/0897

AUTHOR: Vorontsov, Yu. I.; Polyakov, I. V.

TITLE: Investigation of oscillatory processes in circuits containing a number of series-connected tunnel diodes

SOURCE: Radiotekhnika i elektronika, v. 10. no. 5, 1965, 890-897

TOPIC TAGS: tunnel diode, tunnel diode oscillator

ABSTRACT: An oscillator circuit consisting of three series-connected tunnel diodes proposed by Wen-Hsiung (Electronics, 1961, v. 34, 6) has a drawback in that the bias-battery power is spent largely in the voltage divider. The present article offers a modification of the series circuit in which N tunnel diodes operate as a unit whose current-voltage characteristic is similar to that of one tunnel diode but is stretched N times along the voltage axis. The new circuit requires that the rate of voltage change across the diodes be sufficiently high, and that the voltage amplitude

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ACCESSION NR: AP5013342

permit the operating point to swing into the ascending segments of the characteristic, moving slowly over these segments. Using N series-connected diodes increases the amplitude and power of the oscillations N times and substantially improves utilization of the supply battery. Orig. art. has: 5 figures and 2 formulas. [03]

ASSOCIATION: none

SUBMITTED: 11Feb64

ENCL: 00

SUB CODE: EC

NO REF SOV: 002

OTHER: 001

ATD PRESS: 4010

Card 2/2 7.0

42125

S/109/62/007/010/012/012  
D234/D308

9.4330

AUTHORS: Vorontsov, Yu.I., and Polyakov, I.V.

TITLE: Properties of a tunnel diode detector

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 10, 1962,  
1834 - 1844

TEXT: The authors refer to I.A. Lesk, K.N. Holonyak, U.S. Davidson and M.W. Aarons (Wescon Convention Record, IRE, 1959, 3, 3, 9) where unusually high detection coefficients are stated to be observed with small signals, and explained by the properties of the current-voltage characteristic of the tunnel diode near the origin of coordinates. In order to check this, the authors made calculations and experimental studies of a tunnel diode detector in the frequency range 20 kc/s - 700 Mc/s. The results show that the detector behaves in full agreement with the static characteristic of the tunnel diode and the detection coefficient does not exceed unity. At some frequencies the constant voltage was found to be larger than the measured high frequency voltage. The authors assume that this is due to the resonance in the circuit formed by the capacity of the tunnel diode  
Card 1/2

Properties of a tunnel diode detector

S/109/62/007/010/012/012  
D234/D308

C and the inductance of the link between the terminals of the HF voltmeter and the diode (L). Calculations are stated to show that the curve obtained by Lesk and others for 400 Mc/s can be obtained, for instance, with  $L = \text{about } 5 \times 10^{-9} \text{ henry}$  and  $C = \text{about } 40 \text{ pF}$ , loss resistance of the diode = 0.2 ohms and the resistance of the p-n junction at the zero of the characteristic = 250 ohms. It is concluded that, under certain conditions, ordinary diodes in detectors can be replaced by tunnel diodes. Graphs of detector characteristics of a tunnel diode detector and ordinary diode detectors for small signals and of full characteristics of two types of tunnel diode detectors (one with a single diode and one with two diodes in series) are included. X

SUBMITTED: May 3, 1962

Card 2/2

ACCESSION NR: AP4006837

S/0120/63/000/006/0159/0161

AUTHOR: Vorontsov, Yu. I.; Polyakov, I. V.

TITLE: Simple method of measurement of tunnel diode parameters

SOURCE: Priory\* i tekhnika eksperimenta, no. 6, 1963, 159-161

TOPIC TAGS: tunnel diode parameter, tunnel diode, voltampere characteristic, negative resistance, p-n junction

ABSTRACT: The most widely used method for measuring tunnel-diode parameters — the cathode-ray curve tracer method — requires special techniques to suppress parasitic oscillations, particularly in the case of higher-current (over 10 ma) diodes. A new method is suggested in this article for measuring currents and voltages at the maximum and minimum points on the current-voltage characteristic from the size and shape of relaxation oscillations generated by the tunnel diode in a special circuit. The voltages and currents are scale-measured on an oscilloscope screen. The tunnel-diode capacitance is measured by a resonance-oscillation method (an external h-f oscillator is used)

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ACCESSION NR: AP4006837

at the maximum- and minimum-voltage points with the correct bias voltage automatically maintained. The accuracy of the new instrument as determined by a comparison with d-c measurement results, which were considered exact, is characterized by the following errors: 10-15% for minimum currents and voltages, 3-5% for maximum currents and voltages, 5-10% for capacitance. Orig. art has: 3 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova  
(Moscow State University)

SUBMITTED: 03Jan63

DATE ACQ: 24Jan64

ENCL: 00

SUB CODE: SD

NO REF SOV: 003

OTHER: 001

Card 2/2

L 15394-66 EWT(m)/EWP(j)/T RM

ACC NR: AP6000968

SOURCE CODE: UR/0286/65/000/022/0053/0054

AUTHORS: Chukhin, A. A.; Polyakov, I. V.; Ulybin, M. G.; Kapustin, G. V.

ORG: none

TITLE: A press for vulcanizing rubber products. Class 39, No. 176382 /announced by All-Union Scientific-Research Institute of Rubber-Industrial Mechanical Engineering (Vsesoyuznyy nauchno-issledovatel'skiy institut rezino-tekhnicheskogo mashinostroyeniya)

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 53-54

TOPIC TAGS: drive, rubber technology, rubber vulcanization, pressure apparatus, manufacturing facility, manufacturing method

ABSTRACT: This Author Certificate presents a press for vulcanizing rubber products, for example, rubber-metal gaskets. The press includes devices for the withdrawal and opening of the dies (see Fig. 1). These devices are made in the form of horizontally positioned guides fastened to the plates of the press. The guides carry a sliding die which travels with the help of a cylinder. The upper rotating part of the die is connected to the base of the press by hinged arms. The design is intended to increase the productivity of labor. The press contains mechanisms for loading the stock material and removing the finished products. These mechanisms are in the form of a vacuum cartridge connected by a hinge joint to the cylinder and are

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UDC: 678.058.39



L 15394-66

ACC NR: AP6000968

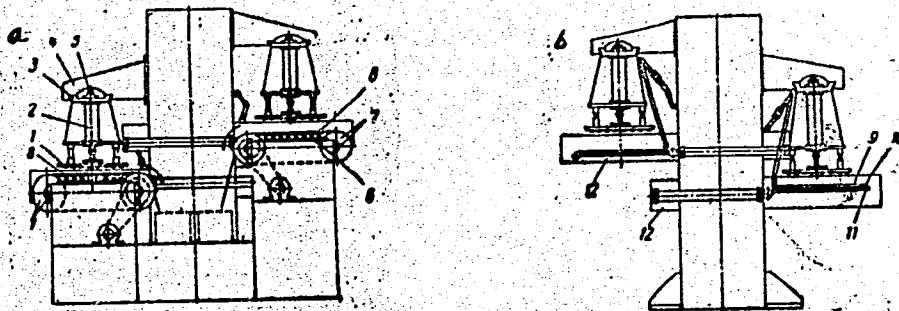


Fig. 1. 1 - Vacuum cartridge; 2 - cylinder; 3 - carriage; 4 - support; 5 - screw couple; 6 - spindle magazine; 7 - conveyer; 8 - conveyer belt of specified length; 9 - middle part of die; 10 - projections on the middle section; 11 - catches; 12 - guides of the press.

rigidly connected by coupled screws to the carriage moving on the guides of the support. To automate the processes of loading the stock materials and removing the finished product, spindle magazines for the stock materials are used in the press. These magazines are mounted on the frames. The press also uses conveyers, along the loops of which are fastened conveyer belts of a specified length. The

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I. 15394-66

ACC NR: AP6000968

dies of the press consist of three hinge-fastened parts. The middle sections of these dies are made with projections which interact with the catches fastened to the guides of the press. Orig. art. has: 1 figure.

SUB CODE: 11,13/  
14/ SUBM DATE: 22Aug63

CC  
Card 3/3

L 47392-66 EWT(d)/FSS-2

ACC NR: AP6031030

SOURCE CODE: UR/0109/66/011/009/1657/1665

AUTHOR: Vorontsov, Yu. I. ; Polyakov, I. V.

ORG: none

TITLE: Investigation of continuous signals in lines with nonlinear resistance

SOURCE: Radiotekhnika i elektronika, v. 11, no. 9, 1966, 1657-1665

TOPIC TAGS: signal propagation, continuous signal, nonlinear resistance line, signal propagation velocity, signal shape

ABSTRACT: The propagation of continuous signals in lines with nonlinear resistance is investigated. It is shown that the resistances existing in the series and parallel branches of the equivalent circuit of such a line affect continuous signal propagation in an essentially different manner. Simplified equivalent circuits used in earlier studies have failed to provide a complete picture of all the types of continuous signals possible in such a line. Conditions of the applicability of simplified equivalent circuits are established. Conditions for the existence of continuous signals and the dependence of their shape and propagation velocity on circuit parameters have been determined. It is demonstrated that with a specific

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UDC: 621.372.2

1. 47392-65

ACC NR: AP6031030

relationship of parameters, depending on the displacement current, two types of stationary signals propagating at completely different velocities are possible in these lines. Orig. art. has: 6 figures, 22 formulas, and a bibliography of 6 titles [DW]  
[Authors' abstract]

SUB CODE: 09/ SUBM DATE: 05May65/ ORIG REF: 005/ OTH REF: 001/

hs  
Card 2/2

POLYAKOV, I.M.; POLYAKOV, I.Ya.

Effect of chemicals on biocoenose. Zashch.rast.ot vred. i bol. 3  
no.6:12-15 N-D '58. (MIRA 11:12)  
(Insecticides) (Fungicides)

POLYAKOV, I.Ya.

Problems of forecasting. Zashch.rast.ot vred. 1 bol. 3 no.6:22-24  
N-D ' 58. (MIRA 11:12)

(Plant diseases) (Agricultural pests)

KOSOV, V.V., red.; POLYAKOV, I.Ya., prof., doktor sel'skokhoz.nauk, red.;  
STERNIN, I.V., red.; FECHENKIN, I.V., tekhn.red.

[Forecasting the appearance and calculating the prevalence of  
plant diseases and agricultural pests] Prognoz poiavleniya i uchet  
vreditel'ei i boleznei sel'skokhoziaistvennykh kul'tur. Moskva,  
Izd-vo M-va sel'.khoz. SSSR, 1958. 626 p. (MIRA 12:1)

1. Russia (1923- U.S.S.R.) Glavnaya gosudarstvennaya inspeksiya  
po karantinu i zashchite rasteniy. 2. Nachal'nik Glavnoy gosu-  
darstvennoy inspeksii po karantinu i zashchite rasteniy Minister-  
stva sel'skogo khozyaystva SSSR (for Kosov). 3. Zaveduyushchiy  
laboratoriyey prognozov razmnozheniya massovykh vreditel'ey sel'sko-  
khoz. kul'tur Vsesoyuznogo nauchno-issledovatel'skogo instituta  
zashchity rasteniy (for Polyakov).

(Plant diseases) (Agricultural pests)

POLYAKOV, I.Ya., prof., doktor sel'skokhozyaystvennykh nauk

Yearly surveys and forecasts. Zashch. rast. ot vred. i bol. 3  
no.5:36-38 '58. (MIRA 11:10)

(Plants, Protection of)



POLYAKOV, I. IA.

"A new Fungicide of Complex Action," Vestnik Zashchity Rastenii, no. 1 (20), 1939  
pp.60-72. 421 P942

SO: SIRA SI 90-53, 15 Dec. 1953

POLYAKOV, I. YA.

"The theoretical meaning of cyclical mass reproduction of field and house mice."  
by Polyakov, I. Ya. (p.

SO: Journal of General Biology (Zhurnal Obshchei Biologii) Vol. X, No. 3, 1949

POLYAKOV, I. Ya.

"The Grass-crop Rotation System In Agriculture And The Pests Of Rodents Of The Mouse Type" (p.52) by I. Ya. Polyakov

SO: Journal of General Biology (Zhurnal Obshchei Biologii) Vol. XI, 1950, No. 1

POLYAKOV, I. Ya.  
CA

117

Some growth requirement characteristics of the social field mouse (*Microtus socialis*) under varying temperature conditions. I. Ya. Polyakov and S. G. Pegel'man. *Zhur. Obshch. Biol.* (J. Gen. Biol.) 11, 449-61(1950).-- Young and adult mice differ significantly in metabolic and respiratory responses to temp. changes. Their optimum temp. is 15-16°. Above 30° test mice lost weight; heart, lungs, and liver were nearly const. in fat content, but protein N and sugar decreased considerably. Adults endured cold well (-3 to 3°); the av. rise in body temp. was 0.9°. New-born mice, in separate test lots at temps. from -5 to 35°, showed a sharp change in temp. response when their eyes opened. Julian F. Smith

1957

USSR/Biology - Extermination of  
Rodents

Oct 52

"The Fight On Rodents," I. Ya. Polyakov, Dr  
Agric Sci

"Nauka i Zhizn'" No 10, pp 31, 32

Author praises the achievements of Soviet scientists in (1) investigating conditions of existence as they affect the potential increase of rodent populations in certain areas and (2) working out appropriate means for extermination of the rodents. The method is based on a study of the influence

245T3

of the environment on the growth of the rodent population. Author states that this method has been successfully used in exterminating rodents in many areas of the USSR.

PA 245T3

245T3

1. MOKEYEVA, T. M. and POLYAKOV, I. Ya.
2. USSR (600)
4. Amu Darya Valley - Rodentia
7. Nesokia indica Gray in the delta of the Amu Darya and problems in the fight against it in connection with the construction of the Main Turkmen Canal. Zool.zhur. 31 No. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

POLYAKOV, I.Ya.; PEGEL'MAN, S.G.

Some changes in physiological features of field voles (*Microtus arvalis* and *Microtus socialis*) in the process of individual development. Zool. zhurn. 32 no.6:1259-1266 N-D '53. (MLRA 6:12)

1. *Prognosis of reproduction of field mice*  
Laboratoriya prognozov razmnozheniya massovykh vreditel'ey sel'sko-khozyaystvennykh kul'tur Vsesoyuznogo nauchno-issledovatel'skogo instituta sashchity rasteniy. (Field mice)

POLYAKOV, I. YA.

Methods of combating large and red-tailed gerbils in Central Asia. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1954. 73 p.

1. Rodentia. 2. Pests - Extermination.



POLYAKOV, I.Ya.

Theory of predicting the number of small rodents. Zhur.ob.biol.  
15 no.2:91-108 Mr-Apr '54. (MIRA 7:3)

1. Institut zashchity rasteniy Vsesoyuznoy ordena Lenina Akademii  
sel'skokhozyaystvennykh nauk im. V.I.Lenina. (Rodentia)

POLYAKOV, I. Ya.

Role of meteorological observations in predicting the development  
of pests and diseases of farm crops. Meteor. i gidrol. no. 9:33-36  
S '56. (MLRA 9:11)

(Meteorology, Agricultural)

POLYAKOV, I.Ya.

Nature of variability in the distribution of rodents as affected  
by variations in their numbers. Zhur.ob.biol. 17 no.1:46-55  
Ja-F '56. (MLRA 9:6)

1. Institut zashchity rasteniy Vsesoyuznoy ordena Lenina Akademii  
sel'skokhozyaystvennykh nauk imeni V.I.Lenina.  
(RODENTIA)

GLADKINA, T.S.: POLYAKOV, I.Ya.

Criteria for forecasting the population of the red-tailed gerbil (*Meriones erythraurus*) in Azerbaijan and southern Uzbekistan [with English summary in insert]. Zool.zhur. 35 no.6:922-934 Je '56. (MLRA 9:10)

1. Laboratoriya prognozov razmnozheniya massovykh vreditel'ey sel'skokhozyaystvennykh kul'tur Vsesoyuznogo nauchno-issledovatel'skogo instituta zashchity rasteniy.  
(Azerbaijan--Gerbils) (Uzbekistan--Gerbils)

IVANOV, O.A.; POLYAKOV, I.Ya.

Intrapopulational relationships of the lesser suslik (*Citellus pygmaeus* Pall.) [with summary in English]. Zhur.ob.biol. 18 no.4: 312-320 J1-Ag '57. (MIRA 10:9)  
(SUSLIKS)

POLYAKOV, I.Ya., prof.

Problems of suslik control. Zashch. rast. ot vred. i bol. 3 no.1:25-26  
Ja-F '58. (MIRA 11:3)  
(Susliks)

SOV-25-5P-8-13/61

AUTHOR: Polyakov, I.Ya., Professor, Doctor of Agricultural Sciences

TITLE: The Service Protecting Plants (Sluzhba zashchity rasteniy)

PERIODICAL: Nauka i zhizn', 1958, Nr 8, pp 26-29 (USSR)

ABSTRACT: Every country in the world has a governmental service for protecting plants from pests and diseases, although this requires considerable funds. The USSR is expending 50 million rubles yearly for the upkeep and work of 19 antilocust expeditions. Hundreds of millions of rubles are being spent every year to fight such pests as the suslik (citellus), bug-tortoise, beet-root weevil, etc. Over 40 detachments for the prevention of pests and plant diseases are being maintained. The planning and coordinating of all measures for the protection of plants is carried out by the Glavnaya gosudarstvennaya inspektsiya po karantinu i zashchite rasteniy Ministerstva sel'skogo khozyaystva SSSR (Chief Governmental Inspection for Quarantine and Protection of Plants, USSR Ministry of Agriculture). Great importance in agricultural science is being attached to research work substantiating and introducing into production the most effective and profitable methods for protecting plants from pests, diseases and weeds. Scientific centers for this

Card 1/2

The Service Protecting Plants

SOV-25-58-8-13/61

work in the USSR are the VASKhNIL and the Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy - VIER (All-Union Scientific Research Institute for the Protection of Plants) with its stations, scientific bases and points distributed in the principal agricultural districts. The author describes in detail the scientific and research work of these institutions. There are 3 photos and 4 drawings.

1. Agriculture--USSR
2. Pest control--Applications

Card 2/2



POLYAKOV, I.Ya.

Interdepartmental conference on suslik control. Zool. zhur. 37  
no. 6:959-960 Je '58. (MIRA 11:7)

(Susliks)

POLYAKOV, I.Ya.; TSYPLENKOV, Ye.P.; CHUMAKOV, A.Ye.

Principles of nation-wide planning of plant protection measures.  
Trudy VIZR no.17:5-20 '63. (MIRA 18:9)

POLYAKOV, I.Yu.

Means of eliminating mass damages by asuliks in the U.S.S.R.  
Trudy VIZR no.17:311-323 '63. (MIRA 18:9)

POLYAKOV, I.Ya., doktor sel'skokhoz. nauk

Seminar on cotton protection. Zashch. rast. ot vred. i bol. 10 no.6:55  
'65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy.

POLYAKOV, Il'ya Yakovlevich; MINKINA, L.N., red.

[Forecasting the distribution of farm crop pests] Prognoz  
rasprostraneniia vreditel'ei sel'skokhoziaistvennykh kul'tur.  
Leningrad, Izd-vo "Kolos," 1964. 325 p. (MIRA 17:7)

POLYAKOV, I.Ya., doktor sel'skokhoz. nauk; CHUMAKOV, A.Ye., kand.  
sel'skokhoz. nauk

Forecast for grain and pulse crop pests and diseases. Zashch.  
rast. ot vred. i bol. 8 no.3:40-44 Mr '63. (MIRA 17:1)

POLYAKOV, I.Ya.

Plant protection problems at the fourth ecological conference.  
Zashch. rast. ot vred. 1 bol. 8 no.2:55-56 P '63. (MIRA 16:7)  
(Plants, Protection of--Congresses)

POLYAKOV, I.Ya., prof., doktor sel'skokhoz.nauk

Ways for further improvement of the forecast service. Zashch.  
rast.ot vred.i bol. 5 no.7:36-38 J1 '60. (MIRA 16:1)  
(Plants, Protection of)



POLYAKOV, I.Ya.

Questions and answers. Zashch. rast. ot vred. 1 bol. 7 no.10:34  
0 '62. (MIRA 16:6)

1. Vsesoyuznyy institut zashchity rasteniy.  
(Wireworms)

GLADKINA, T. S., kand. sel'skokhoz. nauk; POLYAKOV, I. Ya., doktor  
sel'skokhoz. nauk

Ways for putting an end to large-scale damages caused by  
susliks. Zashch. rast. ot vred. i bol. 5 no.5:25-28 My '60.  
(MIRA 16:1)

(Susliks---Extermination)

POLYAKOV, I.Ya., prof., doktor sel'skokhoz. nauk

Improve observations and forecasts on the spread of pests  
and diseases. Zashch. rast. ot vred. i bol. 6 no.11:40-42  
№ '61. (MIRA 16:4)

(Plant diseases)  
(Insects, Injurious and beneficial)

POLYAKOV, I. Ya., prof.

How to calculate the contamination of tracts by pests? Zashch.  
rast. ot vred. i bol. 5 no.11:46-47 N '60. (MIRA 16:1)

(Agricultural pests)

POLYAKOV, I.Ya., prof., doctor sel'skokhoz.nauk

Record keeping and forecasting in foreign countries. Zashch.  
rast.ot vred.i bol. 5 no.3:51-53 Mr '60. (MIRA 16:1)  
(Plants, Protection of)

POLYAKOV, I.Ya.

Achievements and objectives of ecology in controlling rodents  
occurring as agricultural pests. Zool.zhur. 41 no.11:1601-  
1617 N '62. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity  
rasteniy, Leningrad.

(Rodent control)

POLYAKOV, I.Ya., prof., doktor sel'skokhoz.nauk

Forecast for 1962. Zashch. ot vred. i bol. 7 no.2:39-41  
F '62. (MIRA 15:12)

(Agricultural pests)

POLYAKOV, I.Ya.

Theoretical foundations of zoning the territory of the U.S.S.R.  
with respect to the distribution of agricultural pests. Vop. ekol.  
4:71-74 '62. (MIRA 15:11)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.  
(Insects, Injurious and beneficial)



POLYAKOV, I.Ya., prof., doktor sel'skokhoz.nauk

Some results of the visit of the American entomologic delegation  
to the U.S.S.R. Zashch.rast.ot vred.i bol. 4 no.6:56-57 N-D  
'59. (MIRA 15:11)

(Plants, Protection of)  
(Russia--Relations (General) with the United States)  
(United States--Relations (General) with Russia)

POLYAKOV, I.Ya., prof., doktor sel'skokhozyaystvennykh nauk

Undesirable results of the use of chemicals in the protection of  
agricultural plants and how to overcome them. *Zemledelie* 23  
no.10:40-46 0 '61. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity  
rasteniy.

(Plants) (Insecticides)

POLYAKOV, I.Ya.

Achievements and problems of ecology in making forecasts of the distribution of agricultural pests. Zhur. ob. biol. 22 no.5:354-363 S-0 '61. (MIRA 14:9)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.  
(AGRICULTURAL PESTS)

POLYAKOV, I.Ya., prof.

Forecasting the pest outbreaks for 1960. Zashch. rast. ot vred.  
i bol. 5 no.1:30-33 Ja '60. (MIRA 14:6)  
(Agricultural pests)